Recombinant Macaca mulatta Microtubule-associated protein tau(MAPT)

Catalog No: #AP70531

Package Size: #AP70531-1 20ug #AP70531-2 100ug #AP70531-3 1mg

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Description

Product Name	Recombinant Macaca mulatta Microtubule-associated protein tau(MAPT)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-459aaSequence Info:Full Length
Other Names	Neurofibrillary tangle protein;Paired helical filament-tau ;PHF-tau
Accession No.	P57786
Calculated MW	63.8 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	AEPRQEFDVMEDHAGTYGLGDRKDQEGYTMLQDQEGDTDAGLKESPLQTPAEDGSEELGSETSDAKSTPTA EDVTAPLVDERAPGEQAAAQPHMEIPEGTTAEEAGIGDTPSLEDEAAGHVTQARMVSKSKDGTGSDDKKAKG ADGKTKIATPRGAAPPGQKGQANATRIPAKTPPAPKTPPSSATKQVQRKPPPAEPTSERGEPPKSGDRSGYS SPGSPGTPGSRSRTPSLPTPPAREPKKVAVVRTPPKSPSSAKSRLQTAPVPMPDLKNVKSKIGSTENLKHQP GGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVQIVYKPVDLSKVTSKCGSLGNIHHKPGGGQVEVKSEK LDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSGDTSPRHLSNVSSTGSI DMVDSPQLATLADEVSASLAKQGL
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Promotes microtubule assbly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma mbrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by tau localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization.

References

Molecular evolution of tau protein implications for Alzheimer's disease.Nelson P.T., Stefansson K., Gulcher J., Saper C.B.J. Neurochem. 67:1622-1632(1996)Research Topic:Others